

MEMORANDUM

To: Carey Upton, Acting Director of Facility Improvement Projects

From: Ramboll Environ US Corporation

Subject: **Update on Summer 2016 Air, Surface Wipe, and Bulk Sampling at Malibu High School and Juan Cabrillo Elementary School**

Ramboll Environ US Corporation (Ramboll Environ) is providing the Santa Monica-Malibu Unified School District (SMMUSD or District) this update on post-BMP air and surface wipe sampling performed at Malibu High School (MHS) and Juan Cabrillo Elementary School (JCES), post-encapsulation verification surface wipe sampling performed at MHS, and confirmatory bulk and surface wipe sampling performed at JCES during the 2016 Summer break. This sampling was conducted in accordance with the United States Environmental Protection Agency's (USEPA's) November 2, 2015 approval letter (November 2015 Approval)¹ and the supplemental monitoring plan proposed in Ramboll Environ's *Conclusion of PCB Sampling Pilot Study and 2015 PCB Removal Activities Report for Malibu High School and Juan Cabrillo Elementary School* (Summer 2015 Report).² This update serves as an interim report on sampling results, so results are presented as preliminary, pending completion of third-party data validation.

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POST-BMP AND POST-ENCAPSULATION SAMPLING

Post-BMP air and surface wipe sampling (which included all rooms with encapsulated areas from the Summer 2015 caulk removal work) has been completed in the following rooms at MHS:

- Building A (Room 801),
- Building B/C (Room 908D),
- Building D (Room 120),
- Building E (Rooms 1 and 3),

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¹ USEPA, 2015. Letter from Jeff Scott/USEPA to Sandra Lyon/SMMUSD, November 2. Available online: <http://www.smmusd.org/publicnotices/MalibuSupplementalApproval.pdf>.

² Ramboll Environ, 2015. Conclusion of PCB Sampling Pilot Study and 2015 PCB Removal Activities Report for Malibu High School and Juan Cabrillo Elementary School. Available online: <http://www.smmusd.org/publicnotices/PCBreports.html>.

- Building F (Room 302),
- Building G (Rooms 505 and 506),
- Building I (Room 401), and
- Building J (Rooms Boys' Team Room, 704/704 Hallway, and 705).

Post-BMP air and surface wipe sampling has been completed in the following rooms at JCES:

- Building B (Room 2),
- Building C (Room 8), and
- Building E (Library Resource Center).

In addition to post-BMP air and surface wipe sampling, post-encapsulation verification surface wipe sampling has been completed in the following rooms at MHS:

- Building A (Room 801),
- Building E (Rooms 1 and 3),
- Building G (Rooms 505 and 506),
- Building I (Room 401), and
- Building J (704/704 Hallway and 705).

Note that post-encapsulation sampling was not performed in JCES Building F Rooms 18, 19, 22 and 23 because these areas were removed as part of window replacement projects conducted by SMMUSD starting in June 2016. These areas are discussed in the last section of this memorandum.

Preliminary results from post-BMP air sampling are presented in Table A-1. PCBs were below the relevant USEPA Exposure Levels for Evaluating PCBs in Indoor School Air.³ Tables A-2 and A-3 present preliminary results for post-BMP surface wipe samples and post-encapsulation verification surface wipe samples, respectively. In all surface wipe samples collected, PCBs were below USEPA's Region IX surface wipe benchmark for schools of 1 µg/100 cm² as specified in USEPA's November 2015 Approval.

CONFIRMATORY SAMPLING ASSOCIATED WITH JCES RENOVATION PROJECT

SMMUSD is currently in the midst of completing a window replacement project in Building F of JCES. This project included removal of porous materials in Rooms 18, 19, 22, and 23 that had been encapsulated during the caulk removal work conducted in Summer 2015. Porous materials around windows in Rooms 16, 17, 20, and 21 were also removed. Immediately subsequent to the removal of the windows and

³ USEPA. 2015. Exposure Levels for Evaluation of PCBs in Indoor School Air. February 2016. Available online: <https://www.epa.gov/pcbs/exposure-levels-evaluation-polychlorinated-biphenyls-pcbs-indoor-school-air>. USEPA cited these health-protective exposure levels in their November 2015 Approval. USEPA's health-protective exposure levels are 200 nanograms per cubic meter (ng/m³) (children 3 to less than 6 years old), 300 ng/m³ (elementary school - 6 to less than 12 years old), 500 ng/m³ (middle school - 12 to less than 15 years old), 600 ng/m³ (high school - 15 to less than 19 years old), and 500 ng/m³ (faculty/adults), respectively.

surrounding porous substrates by SMMUSD's contractors in June/July 2016, Ramboll Environ collected confirmatory bulk samples of building materials previously adjacent to the windows in the following rooms at JCES:

- Building F (Rooms 16 through 23).

Preliminary results from confirmatory bulk sampling are presented in Table A-4. All results were below the USEPA remediation goal of ≤ 1 mg/kg PCBs, as defined in 40 CFR 761.61(a)(4)(i)(A), specified in USEPA's November 2015 Approval.

Upon receipt of the bulk sample results, surface wipe samples were then collected by Ramboll Environ before contractor's containment (i.e., polyethylene sheeting installed to prevent the migration of dust during renovation/demolition activities) was removed to ensure that exposed building material surfaces within the containment area were below USEPA's Region IX surface wipe benchmark for schools of $1 \mu\text{g}/100 \text{ cm}^2$ specified in USEPA's November 2015 Approval. Confirmatory surface wipe samples were collected in the following rooms at JCES:

- Building F (Rooms 16 through 23)
- Building C (Room 6)⁴

Table A-5 shows preliminary results for confirmatory surface wipe samples. PCBs were not detected above the PCB laboratory reporting limit and were therefore below USEPA's Region IX surface wipe benchmark for schools of $1 \mu\text{g}/100 \text{ cm}^2$.

Additional sampling (anticipated for September 2016) will be performed in JCES Building F (Rooms 16 through 23) and JCES Building C Room 6, after new building materials are installed. This sampling will involve air sampling and surface wipe sampling in these rooms to verify that results are below USEPA's Exposure Levels for Evaluating PCBs in Indoor School Air and USEPA's Region IX surface wipe benchmark for schools of $1 \mu\text{g}/100 \text{ cm}^2$.

Attachment:

A: Tables – Air, Surface Wipe, and Bulk Sampling Result

⁴ Renovations at Building C (Room 6) consisted of removing and replacing interior walls; the windows were not replaced as these were installed in the late 1990s according to SMMUSD. Surface wipe samples were performed in Building C (Room 6) as PCBs were previously detected in wipe samples collected from the original walls of this room.

ATTACHMENT A
TABLES – SAMPLING RESULTS

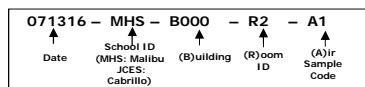
Table A-1. Preliminary Summary of Post-BMP Air Sampling Results for Summer Break 2016 Sampling

Malibu High School and Juan Cabrillo Elementary School
Malibu, California

Building	Room Placard ID	Floor Plan Room ID	Room Description	Sampling Date ^[a]	Sample ID	Total PCBs (ng/m ³)
MHS						
A (800, Great White Shark)	801	208	Computer lab/Library	8/5/2016	080516-MHS-B800-R801-A1	ND (<69)
B/C (900, Whale Shark)	908D	112	Counselor's Office	8/5/2016	080516-MHS-B900-R908D-A1	89
			Counselor's Office (duplicate)		080516-MHS-B900-R908D-A2	97
D (100/200, Mako Shark)	120	112	Teachers' Lounge	8/4/2016	080416-MHS-B100-R120-A1	ND (<69)
E (000, Blue Shark)	1	116	Classroom	8/4/2016	080416-MHS-B000-R1-A1	ND (<69)
	3	118	Classroom	8/4/2016	080416-MHS-B000-R3-A1	ND (<70)
F (300, Thresher Shark)	302	101	Band Room	7/13/2016	071316-MHS-B300-R302-A1	ND (<69)
G (500, Angel Shark)	505	404N	Art Classroom	8/4/2016	080416-MHS-B500-R505-A1	110
	506	403	Wood Shop	8/4/2016	080416-MHS-B500-R506-A1	200
I (400, Leopard Shark)	401	401	Classroom	7/13/2016	071316-MHS-B400-R401-A1	ND (<71)
			Classroom (duplicate)		071316-MHS-B400-R401-A2	ND (<71)
J (700, Old Gymnasium)	Boys' Team Room	142	Team Room	8/12/2016	081216-MHS-B700-RBTR-A1	93
	704/704 Hallway	117/115A	Faculty Office/Hallway		081216-MHS-B700-R704-A1	120
	705	115	Office		081216-MHS-B700-R705-A1	86
JCES						
B	R2	2	Special Education Room	8/5/2016	080516-JCES-BB-R2-A1	ND (<70)
C	R8	8	Kindergarten and 1st grade classroom	8/12/2016	081216-JCES-BC-R8-A1	ND (<68)
E	Library Resource Center	163C	Library	8/5/2016	080516-JCES-BE-RLRC-A1	ND (<70)
Field Blanks and Ambient				7/13/2016	071316-MHS-AOD	ND (<75)
					071316-MHS-AFB	NA
				8/4/2016	080416-MHS-AOD	ND (<72)
					080416-MHS-AFB	NA
				8/5/2016	080516-JCES-AOD	ND (<70)
					080516-JCES-AFB	NA
				8/12/2016	081216-MHS-AOD	ND (<71)
					081216-MHS-AFB	NA

Notes:

- The data presented in this table is preliminary, pending completion of third-party data validation.
- Analytical reports (P1603523, P1603898, P1603993) were provided by the laboratory, ALS Environmental. Samples were analyzed by USEPA method TO-10A.
- If no Aroclors were detected, total PCBs are shown as less than (<) the highest method reporting limit.
- Duplicate samples were collected adjacent to the primary sample.
- Example of sample ID:



^[a] Air samples were collected over a 24-hour period with the lights on, windows and doors closed, and ventilation off. Start date is given.

Abbreviations:

ng/m³ = nanograms per cubic meter
 BMP = Best Management Practice
 FB = field blank
 JCES = Juan Cabrillo Elementary School
 MHS = Malibu High School
 NA = not applicable
 ND = Compound was analyzed for but not detected above the laboratory reporting limit
 OD = outdoor
 PCB = polychlorinated biphenyl
 TO = toxic organic
 USEPA = United States Environmental Protection Agency

Table A-2. Preliminary Summary of Post-BMP Surface Wipe Sampling Results for Summer Break 2016 Sampling

Malibu High School and Juan Cabrillo Elementary School
Malibu, California

Building	Room Placard ID	Floor Plan Room ID	Room Description	Sample Location	Surface Description	Sampling Date	Sample ID	Total PCB Surface Wipe Concentration (µg/100 cm ²)
MHS								
A (800, Great White Shark)	801	208	Computer Lab/Library	Counter top	painted wood	8/6/2016	080616-MHS-B800-R801-W01	ND (<0.10)
				Table	wood		080616-MHS-B800-R801-W02	ND (<0.10)
				Bookshelf	painted wood		080616-MHS-B800-R801-W03	ND (<0.10)
B/C (900, Whale Shark)	908D	112	Counselor's Office	Desk	wood	8/6/2016	080616-MHS-B900-R908D-W01	ND (<0.10)
				Desk (replicate)	wood		080616-MHS-B900-R908D-W02	ND (<0.10)
				File cabinet	metal		080616-MHS-B900-R908D-W03	ND (<0.10)
				File cabinet	metal		080616-MHS-B900-R908D-W04	ND (<0.10)
D (100/200, Mako Shark)	120	112	Teachers' Lounge	Table	wood	8/5/2016	080516-MHS-B100-R120-W01	ND (<0.10)
				Table (duplicate)	wood		080516-MHS-B100-R120-W02	ND (<0.10)
				Bookshelf	wood		080516-MHS-B100-R120-W03	ND (<0.10)
				Computer desk	glass		080516-MHS-B100-R120-W04	ND (<0.10)
E (000, Blue Shark)	1	116	Classroom	Student desk	wood laminate	8/5/2016	080516-MHS-B000-R1-W01	ND (<0.10)
				Table	wood		080516-MHS-B000-R1-W02	ND (<0.10)
				Counter top (sink adjacent)	laminate		080516-MHS-B000-R1-W03	ND (<0.10)
	3	118	Classroom	Student desk	wood laminate	8/5/2016	080516-MHS-B000-R3-W01	ND (<0.10)
				Teacher desk	wood		080516-MHS-B000-R3-W02	ND (<0.10)
				Counter top (sink adjacent)	laminate		080516-MHS-B000-R3-W03	ND (<0.10)
F (300, Thresher Shark)	302	101	Band Room	Counter top	laminate	7/14/2016	071416-MHS-B300-R302-W01	ND (<0.10)
				Counter top (duplicate)	laminate		071416-MHS-B300-R302-W02	ND (<0.10)
				Shelving unit	wood		071416-MHS-B300-R302-W03	ND (<0.10)
				Wall	painted plaster		071416-MHS-B300-R302-W04	ND (<0.10)
				Counter top (sink adjacent)	laminate		080516-MHS-B500-R505-W01	ND (<0.10)
G (500, Angel Shark)	505	404N	Art Classroom	Table	laminate	8/5/2016	080516-MHS-B500-R505-W02	ND (<0.10)
				Counter top	laminate		080516-MHS-B500-R505-W03	ND (<0.10)
				Student desk	wood laminate	8/5/2016	080516-MHS-B500-R506-W01	0.10
	506	403	Wood Shop	Workbench	wood		080516-MHS-B500-R506-W02	ND (<0.10)
				Machinery table	wood		080516-MHS-B500-R506-W03	ND (<0.10)
I (400, Leopard Shark)	401	401	Classroom	Counter top	laminate	7/14/2016	071416-MHS-B400-R401-W01	ND (<0.10)
				Student desk	laminate		071416-MHS-B400-R401-W02	ND (<0.10)
				Student desk (replicate)	laminate		071416-MHS-B400-R401-W03	ND (<0.10)
				Teacher desk	laminate		071416-MHS-B400-R401-W04	ND (<0.10)
J (700, Old Gymnasium)	Boys' Team Room	142	Team Room	Desk	wood	8/13/2016	081316-MHS-B700-RBTR-W01	ND (<0.10)
				Desk (replicate)	wood		081316-MHS-B700-RBTR-W02	ND (<0.10)
				Table	wood		081316-MHS-B700-RBTR-W03	ND (<0.10)
				Bookshelf	metal		081316-MHS-B700-RBTR-W04	ND (<0.10)
	704/704 Hallway	117/115A	Faculty Office/Hallway	Desk	laminate	8/13/2016	081316-MHS-B700-R704-W01	ND (<0.10)
				Desk (duplicate)	laminate		081316-MHS-B700-R704-W02	ND (<0.10)
				Desk	wood		081316-MHS-B700-R704-W03	ND (<0.10)
				File cabinet	metal		081316-MHS-B700-R704-W04	ND (<0.10)
	705	115	Office	Desk	laminate	8/13/2016	081316-MHS-B700-R705-W01	ND (<0.10)
				Bookshelf	plastic		081316-MHS-B700-R705-W02	ND (<0.10)
				Bookshelf (duplicate)	plastic		081316-MHS-B700-R705-W03	ND (<0.10)
				Wall	painted stucco		081316-MHS-B700-R705-W04	ND (<0.10)

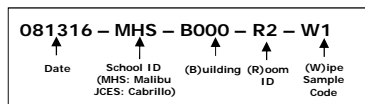
Table A-2. Preliminary Summary of Post-BMP Surface Wipe Sampling Results for Summer Break 2016 Sampling

Malibu High School and Juan Cabrillo Elementary School
Malibu, California

Building	Room Placard ID	Floor Plan Room ID	Room Description	Sample Location	Surface Description	Sampling Date	Sample ID	Total PCB Surface Wipe Concentration (µg/100 cm ²)
JCES								
B	R2	2	Special Education Room	Table	wood	8/6/2016	080616-JCES-BB-R2-W01	ND (<0.10)
				Student desk	wood		080616-JCES-BB-R2-W02	ND (<0.10)
				Counter top (sink adjacent)	laminate		080616-JCES-BB-R2-W03	ND (<0.10)
				Counter top (sink adjacent) (duplicate)	laminate		080616-JCES-BB-R2-W04	ND (<0.10)
C	R8	8	Kindergarten and 1st grade classroom	Desk	plastic	8/13/2016	081316-JCES-BC-R8-W01	ND (<0.10)
				Shelf	wood		081316-JCES-BC-R8-W02	ND (<0.10)
				Shelf (replicate)	wood		081316-JCES-BC-R8-W03	ND (<0.10)
				Counter top (sink adjacent)	laminate		081316-JCES-BC-R8-W04	ND (<0.10)
E	Library Resource Center	163C	Library	Table	wood	8/6/2016	080616-JCES-BE-RLRC-W01	ND (<0.10)
				Bookshelf	wood		080616-JCES-BE-RLRC-W02	ND (<0.10)
				Table	wood		080616-JCES-BE-RLRC-W03	ND (<0.10)
Field Blanks						7/14/2016	071416-WFB-HEX	ND (<0.10)
						8/5/2016	080516-WFB-HEX	ND (<0.10)
						8/6/2016	080616-WFB-HEX	ND (<0.10)
						8/13/2016	081316-WFB-HEX	ND (<0.10)

Notes:

1. The data presented in this table is preliminary, pending completion of third-party data validation.
2. Analytical reports (1607818, 1608462, 1608817) were provided by the laboratory, ALS Environmental. Samples were analyzed by USEPA method SW 8082. Sample area was 100 cm^2 .
3. If no Aroclors were detected, total PCBs are shown as less than (<) the highest method reporting limit.
4. Duplicate samples were collected adjacent to the primary sample. Replicate samples were collected in the same location as the primary sample, after the primary sample was collected.
5. Example of sample ID:



Abbreviations:

$\mu\text{g}/100\text{ cm}^2$ = micrograms per 100 square centimeters
 cm^2 = square centimeters
 BMP = Best Management Practice
 FB = field blank
 HEX = hexane
 JCES = Juan Cabrillo Elementary School

MHS = Malibu High School
 ND = Testing result not detected above the reporting limit
 PCB = polychlorinated biphenyl
 SW = solid waste
 USEPA = United States Environmental Protection Agency

Table A-3. Preliminary Summary of Post-Encapsulation Verification Surface Wipe Sampling Results for Summer Break 2016 Sampling

Malibu High School and Juan Cabrillo Elementary School

Malibu, California

Building	Room Placard ID	Floor Plan Room ID	Room Description	Sample Location	Surface Description	Sampling Date	Sample ID	Total PCB Surface Wipe Concentration ($\mu\text{g}/100\text{ cm}^2$)
MHS								
A (800, Great White Shark)	801	208	Computer Lab/Library	Window sill	painted encapsulated plaster	8/6/2016	080616-MHS-B800-R801-PEW01	ND (<0.10)
				Window sill	painted encapsulated plaster		080616-MHS-B800-R801-PEW02	ND (<0.10)
				Window sill (replicate)	painted encapsulated plaster		080616-MHS-B800-R801-PEW03	ND (<0.10)
				Window sill	painted encapsulated plaster		080616-MHS-B800-R801-PEW04	ND (<0.10)
E (000, Blue Shark)	1	116	Classroom	Wall	painted encapsulated plaster	8/5/2016	080516-MHS-B000-R1-PEW01	0.34
	3	118	Classroom	Wall	painted encapsulated plaster		080516-MHS-B000-R3-PEW01	ND (<0.10)
G (500, Angel Shark)	505	404N	Art Classroom	Wall	encapsulated wood	8/5/2016	080516-MHS-B500-R505-PEW01	0.28
	506	403	Wood Shop	Wall	encapsulated wood		080516-MHS-B500-R506-PEW01	ND (<0.10)
I (400, Leopard Shark)	401	401	Classroom	Wall	painted encapsulated plaster	7/14/2016	071416-MHS-B400-R401-PEW01	ND (<0.10)
				Wall (duplicate)	painted encapsulated plaster		071416-MHS-B400-R401-PEW02	ND (<0.10)
				Wall	encapsulated plaster		071416-MHS-B400-R401-PEW03	ND (<0.10)
				Wall (replicate)	encapsulated plaster		071416-MHS-B400-R401-PEW04	ND (<0.10)
J (700, Old Gymnasium)	704/704 Hallway	117/115A	Faculty Office/Hallway	Window sill	encapsulated ceramic tile	8/13/2016	081316-MHS-B700-R704-PEW01	ND (<0.10)
				Window sill	encapsulated ceramic tile		081316-MHS-B700-R704-PEW02	ND (<0.10)
				Wall	encapsulated plaster		081316-MHS-B700-R704-PEW03	ND (<0.10)
	705	115	Office	Window sill	painted encapsulated ceramic tile	8/13/2016	081316-MHS-B700-R705-PEW01	ND (<0.10)
Field Blanks						7/14/2016	071416-WFB-HEX	ND (<0.10)
						8/5/2016	080516-WFB-HEX	ND (<0.10)
						8/6/2016	080616-WFB-HEX	ND (<0.10)
						8/13/2016	081316-WFB-HEX	ND (<0.10)

Notes:

1. The data presented in this table is preliminary, pending completion of third-party data validation.
2. Analytical reports (1607818, 1608462, 1608817) were provided by the laboratory, ALS Environmental. Samples were analyzed by USEPA method SW 8082. Sample area was 100 cm^2 .
3. If no Aroclors were detected, total PCBs are shown as less than (<) the highest method reporting limit.
4. Duplicate samples were collected adjacent to the primary sample. Replicate samples were collected in the same location as the primary sample, after the primary sample was collected.
5. Example of sample ID:

071416	-	MHS	-	B000	-	R1	-	PEW1
↑		↑		↑		↑		↑
Date		School ID (MHS: Malibu JCES: Cabrillo)		(B)uilding		(R)oom ID		(W)ipe Sample Code

Abbreviations:

$\mu\text{g}/100\text{ cm}^2$ = micrograms per 100 square centimeters

cm^2 = square centimeters

BMP = Best Management Practice

FB = field blank

HEX = hexane

JCES = Juan Cabrillo Elementary School

MHS = Malibu High School

NA = not applicable

ND = Testing result not detected above the reporting limit

PCB = polychlorinated biphenyl

PE = post-encapsulation

SW = solid waste

USEPA = United States Environmental Protection Agency

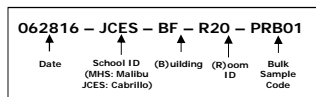
Table A-4. Preliminary Summary of PCB Bulk Sampling Results for Summer 2016 JCES Renovation

Juan Cabrillo Elementary School
Malibu, California

Building	Room Placard ID	Floor Plan Room ID	Room Description	Sample Location	Surface Description	Sampling Date	Sample ID	Total PCB Surface Concentration (mg/kg)
JCES								
F	R16	16	Special education student occupational therapy room	Wall to right of former window unit	stucco/plaster	7/6/2016	070616-JCES-BF-R16-PRB01	0.24
				Wall to right of former window unit	stucco/plaster (duplicate of PRB01)		070616-JCES-BF-R16-PRB02	0.13
				Wall to left of former window unit	stucco/plaster		070616-JCES-BF-R16-PRB05	0.009
				HVAC wall	drywall		070616-JCES-BF-R16-PRB08	0.013
	R17	17	Computer room	Wall to left of former window unit	stucco/plaster	7/6/2016	070616-JCES-BF-R17-PRB01	0.12
				Wall to right of former window unit	stucco/plaster		070616-JCES-BF-R17-PRB04	0.0084
				HVAC wall	drywall		070616-JCES-BF-R17-PRB07	0.013
	R18	18	PTA room	Wall to right of former window unit	stucco/plaster	7/6/2016	070616-JCES-BF-R18-PRB01	0.17
				Wall to right of former window unit	stucco/plaster (duplicate of PRB01)		070616-JCES-BF-R18-PRB02	0.14
				Wall to left of former window unit	stucco/plaster		070616-JCES-BF-R18-PRB05	0.25
				HVAC wall	drywall		070616-JCES-BF-R18-PRB08	0.15
	R19	19	Music room	Wall to left of former window unit	stucco/plaster	7/6/2016	070616-JCES-BF-R19-PRB01	0.22
				HVAC wall	drywall		070616-JCES-BF-R19-PRB04	0.16
				Wall to right of former window unit	stucco/plaster		070616-JCES-BF-R19-PRB07	0.072
	R20	20	Science laboratory	Wall to left of former window unit	stucco/plaster	6/28/2016	062816-JCES-BF-R20-PRB01	0.204
				Wall to right of former window unit	stucco/plaster		062816-JCES-BF-R20-PRB04	0.28
				HVAC wall	drywall		062816-JCES-BF-R20-PRB07	0.051 J
				HVAC wall	drywall (duplicate of PRB07)		062816-JCES-BF-R20-PRB08	0.012 J
	R21	21	Special education classroom	Wall to right of former window unit	stucco/plaster	6/29/2016	062916-JCES-BF-R21-PRB01	0.23
				Wall to left of former window unit	stucco/plaster		062916-JCES-BF-R21-PRB04	0.031
				HVAC wall	drywall		062916-JCES-BF-R21-PRB07	0.023
	R22	22	Art classroom	Wall to left of former window unit	stucco/plaster	6/29/2016	062916-JCES-BF-R22-PRB01	0.56
				Wall to right of former window unit	stucco/plaster		062916-JCES-BF-R22-PRB04	0.2
				Wall to right of former window unit	stucco/plaster (duplicate of PRB04)		062916-JCES-BF-R22-PRB05	0.35
				HVAC wall	drywall		062916-JCES-BF-R22-PRB08	0.2
	R23	23	Overflow room/music room	Wall to right of former window unit	stucco/plaster	7/6/2016	070616-JCES-BF-R23-PRB01	0.26
				Wall to left of former window unit	stucco/plaster		070616-JCES-BF-R23-PRB04	0.87
				HVAC wall	drywall		070616-JCES-BF-R23-PRB07	0.56
Equipment Rinse Blanks						6/28/2016	062816-JCES-BF-R20-ERB	ND (<0.022 µg/L)
						6/29/2016	062916-JCES-BF-R22-ERB	ND (<0.019 µg/L)
						7/6/2016	070616-JCES-BF-R17-ERB	ND (<0.016 µg/L)

Notes:

- The data presented in this table is preliminary, pending completion of third-party data validation.
- Analytical reports (16061694, 16061790, 1607292) were provided by the laboratory, ALS Environmental. Samples were analyzed by USEPA method SW 8082.
- DVRs (36695A: EPA Level IV, 36695B, 36695C: EPA Level III) were provided by LDC.
- For DVR 36695A, the RPD between the two columns was greater than 40% in two samples, affecting detected concentrations of Aroclor 1254 in those samples.
- If no Aroclors were detected, total PCBs are shown as less than (<) the highest method reporting limit.
- Duplicate samples were collected adjacent to the primary sample.
- Example of sample ID:



Abbreviations:

µg/L = micrograms per liter
DVR = data validation report
ERB = equipment rinse blank
HVAC = heating ventilation and air conditioning
J = indicates an estimated value
JCES = Juan Cabrillo Elementary School
LDC = Laboratory Data Consultants, Inc.

mg/kg = milligrams per kilogram
ND = Testing result not detected above the reporting limit
PCB = polychlorinated biphenyl
PRB = post-removal bulk
RPD = relative percent difference, in compound quantitation
SW = solid waste
USEPA = United States Environmental Protection Agency

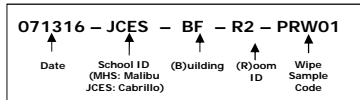
Table A-5. Preliminary Summary of PCB Surface Wipe Sampling Results for Summer 2016 JCES Renovation (Inside Containment)

Juan Cabrillo Elementary School
Malibu, California

Building	Room Placard ID	Floor Plan Room ID	Room Description	Sample Location	Surface Description	Sampling Date	Sample ID	Total PCB Surface Wipe Concentration (µg/100 cm ²)
JCES								
F	R16	16	Special education student occupational therapy room	Wall above light switch	stucco/plaster	7/13/2016	071316-JCES-BF-R16-PRW01	ND (<0.10)
				Wall above light switch	stucco/plaster (duplicate of PRW01)		071316-JCES-BF-R16-PRW02	ND (<0.10)
				Wall above door	drywall		071316-JCES-BF-R16-PRW03	ND (<0.10)
	R17	17	Computer room	Wall above light switch	stucco/plaster	7/13/2016	071316-JCES-BF-R17-PRW01	ND (<0.10)
				Wall above light switch	stucco/plaster (replicate of PRW01)		071316-JCES-BF-R17-PRW02	ND (<0.10)
				Wall above door	drywall		071316-JCES-BF-R17-PRW03	ND (<0.10)
	R18	18	PTA room	Wall above light switch	stucco/plaster	7/13/2016	071316-JCES-BF-R18-PRW01	ND (<0.10)
				Wall above door	drywall		071316-JCES-BF-R18-PRW02	ND (<0.10)
	R19	19	Music room	Wall above light switch	stucco/plaster	7/13/2016	071316-JCES-BF-R19-PRW01	ND (<0.10)
				Wall above door	drywall		071316-JCES-BF-R19-PRW02	ND (<0.10)
				Wall above door	drywall (replicate of PRW02)		071316-JCES-BF-R19-PRW03	ND (<0.10)
	R20	20	Science laboratory	Wall above light switch	stucco/plaster	7/7/2016	070716-JCES-BF-R20-PRW01	ND (<0.10)
				Wall above door	drywall		070716-JCES-BF-R20-PRW02	ND (<0.10)
				Wall above door	drywall (duplicate of PRW02)		070716-JCES-BF-R20-PRW03	ND (<0.10)
	R21	21	Special education classroom	Wall above light switch	stucco/plaster	7/7/2016	070716-JCES-BF-R21-PRW01	ND (<0.10)
				Wall above door	drywall		070716-JCES-BF-R21-PRW02	ND (<0.10)
				Wall above door	drywall (replicate of PRW02)		070716-JCES-BF-R21-PRW03	ND (<0.10)
	R22	22	Art classroom	Wall above light switch	stucco/plaster	7/7/2016	070716-JCES-BF-R22-PRW01	ND (<0.10)
				Wall above door	drywall		070716-JCES-BF-R22-PRW02	ND (<0.10)
	R23	23	Overflow room/music room	Wall above light switch	stucco/plaster	7/13/2016	071316-JCES-BF-R23-PRW01	ND (<0.10)
				Wall above door	drywall		071316-JCES-BF-R23-PRW02	ND (<0.10)
				Wall above door	drywall (duplicate of PRW01)		071316-JCES-BF-R23-PRW03	ND (<0.10)
C	R6	135	Psychologist's office	Wall above light switch	stucco/plaster	7/13/2016	071316-JCES-BC-R6-PRW01	ND (<0.10)
				Wall above door	drywall		071316-JCES-BC-R6-PRW02	ND (<0.10)
Field Blanks						7/7/2016	070716-WFB-HEX	ND (<0.10)
						7/13/2016	071316-WFB-HEX	ND (<0.10)

Notes:

1. The data presented in this table is preliminary, pending completion of third-party data validation.
2. Analytical reports (1607374, 1607683) were provided by the laboratory, ALS Environmental. Samples were analyzed by USEPA method SW 8082. Sample area was 100 cm².
3. DVRs (36695D: EPA Level IV, 36852A: EPA Level III) were provided by LDC. No data qualifiers were identified.
4. If no Aroclors were detected, total PCBs are shown as less than (<) the highest method reporting limit.
5. Duplicate samples were collected adjacent to the primary sample. Replicate samples were collected in the same location as the primary sample, after the primary sample was collected.
6. Example of sample ID:



Abbreviations:

µg/100 cm² = micrograms per 100 square centimeters
cm² = square centimeters
DVR = data validation report
FB = field blank
HEX = hexane
JCES = Juan Cabrillo Elementary School

LDC = Laboratory Data Consultants, Inc.
ND = Testing result not detected above the reporting limit
PCB = polychlorinated biphenyl
SW = solid waste
USEPA = United States Environmental Protection Agency